TYPE EXAMINATION CERTIFICATE



[2] Equipment or Protective System intended for use in Potentially Explosive Atmospheres

Directive 2014/34/EU

[3] Type Examination Certificate Number: **DEMKO 05 ATEX 0431689X Rev. 5**

[4] Product: Overvoltage Protectors: Model OVP2

[1]

Decouplers & Isolators: Models SSD, GI, GD, GCMD, GMD, PCD and TSD

[5] Manufacturer: Dairyland Electrical Industries Inc.

[6] Address: 340 Business Park Circle, PO Box 187, Stoughton, WI 53589 USA

[7] This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] UL International Demko A/S certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.

The examination and test results are recorded in confidential report no. US/UL/ExTR14.0031/03.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 EN IEC 60079-7: 2015 +A1:2018

except in respect of those requirements listed at item 18 of the Schedule.

- [10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.
- [11] This Type examination certificate relates only to the design of the specified product, and not to specific items of product subsequently manufactured.
- [12] The marking of the product shall include the following:



Certification Manager

Jan-Erik Storgaard

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. U. Lid in ot select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval

Date of issue: 2005-12-28 **Re-issued:** 2021-06-29

Certification Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark

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Schedule TYPE EXAMINATION CERTIFICATE No. [14] **DEMKO 05 ATEX 0431689X Rev. 5**

[15] **Description of Equipment:**

These devices are intended to be used to provide AC grounding and DC blocking for cathodic protection of underground pipelines and similar installations in explosive atmospheres.

Nomenclature:

Overvoltage Protectors:

Models OVP2, followed by 1/1, 1.5/1.5, 2/1, 2/2, 3/1, 4/1, followed by 1.2, may be followed by 75.

Models OVP2, followed by 1/1, 1.5/1.5, 2/1, 2/2, 3/1, 4/1, followed by 2.0, 3.7, or 5.0, may be followed by 100.

I. Basic Model Series and device name.

OVP2 - Overvoltage protector

II. Designates Peak Blocking Voltage (Negative Peak/Positive Peak).

III. Designates AC Current Rating (rms).

1.2 - 1.2 kiloamperes

2.0 - 2.0 kiloamperes

3.7 - 3.7 kiloamperes

5.0 - 5.0 kiloamperes

IV. Optional - Surge Current Rating

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[14]

Schedule TYPE EXAMINATION CERTIFICATE No. DEMKO 05 ATEX 0431689X Rev. 5

Decouplers & Isolators:

Models SSD, GI, GD, GCMD, GMD, PCD or TSD followed by 1/1, 1.5/1.5, 2/1, 2/2, 3/1, 4/1, followed by 1.2, may be followed by 75.Models SSD, GI, GD, GCMD, GMD, PCD or TSD followed by 1/1, 1.5/1.5, 2/1, 2/2, 3/1, 4/1, followed by, 2.0, 3.7, or 5.0, may be followed by 100.

All decouplers and isolators are identical, except for the prefix number (SSD, GI, GD, GCMD, GMD, PCD or TSD). Model OVP2 devices are not provided with a capacitor. Model PCR, SSD, GI, GD, GCMD, GMD, PCD and TSD devices are provided with a capacitor.

I. Basic Model Series.

SSD - Solid state decoupler

GI - Galvanic isolator

GD - Galvanic decoupler

GCMD - Gradient control mat decoupler

GMD - Ground mat decoupler

PCD - Pipeline casing decoupler

TSD -Test station decoupler

II. Designates Peak Blocking Voltage (Negative Peak/Positive Peak).

1/1 - -1V/+1V 1.5/1.5 - -1.5V/+1.5V 2/1 - -2V/+1V 2/2 - -2V/+2V 3/1 - -3V/+1V

3/1 - -3V/+1V 4/1 - -4V/+1V

III. Designates AC Current Rating (rms).

1.2 - 1.2 kiloamperes

2.0 - 2.0 kiloamperes

3.7 - 3.7 kiloamperes

5.0 - 5.0 kiloamperes

VI. Optional - Surge Current Rating

75 – 75 kA 100 – 100 kA.

Temperature range

The ambient temperature range is - 45 °C to + 65 °C

Electrical data

All model devices may have a lightning surge current rating of 100 kA (8 x 20µs waveform)

Installation instructions

For ambient temperatures below –10 degree C and above +60 degree C use field wiring suitable for both minimum and maximum ambient temperature.

Routine tests

No routine testing is required.

[16] <u>Descriptive Documents</u>

The scheduled drawings are listed in the report no. provided under item no. [8] on page 1 of this Type Examination Certificate.

[17] Special Conditions of Use:

- Plastic enclosures are to be cleaned or wiped only with a damp cloth.
- · During installation the device should be handled and mounted in a location so that direct impact is minimized.

[18] <u>Essential Health and Safety Requirements</u>

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

Additional information

Series OVP2, SSD, GI, GD, GCMD, GMD, PCD and TSD have in addition passed the tests for Ingress Protection to IP 68 in accordance with EN60529: 1991+A1:2000+A2:2013.

